Luxury Vinyl Plank (LVP) can hold up to heavy rolling loads—such as power wheelchairs, medical equipment, or heavy carts—**only** if you use a fully glue-down installation method with hard-set adhesive and commercial-grade specifications. Floating LVP floors will flex, buckle, and fail under repetitive rolling and pivoting pressure. Reddit · r/Flooring +2

Critical Requirements for Rolling Loads

- **Installation Type:** Must be direct glue-down using a hard-set adhesive, never a floating click-lock system.
- **Wear Layer:** Minimum 20 mil to 28+ mil thickness to resist surface crushing and shearing from wheels.
- **Core & Thickness:** Rigid core (SPC) or high-density solid vinyl with an overall thickness of 5mm to 9.5mm.
- **Subfloor Prep:** The subfloor must be perfectly flat and smooth; any bumps or dips will telegraph through the glued vinyl and crack under rolling weight. Reddit · r/Flooring +6

If you want to plan your project, tell me:

- What **specific type of rolling load** (wheelchair, heavy tool cart, pallet jack) is going on the floor?
- Is the subfloor **concrete or wood**?

Reddit · r/Flooring

LVP for high torque heavy rolling loads? : r/Flooring - Reddit

Aug 23, 2024 — Recommended Flooring: Glue-down LVP is generally recommended for use with heavy power wheelchairs.

Instagram · Erin Gerlach | Hamilton Park ...

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Mar 14, 2025 — Garage floors that aren't epoxy?! 🤯 Yep please! 🤷‍♀️ This is a stone composite LVP flooring that is made specifically for garage...